

mai/

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/526,125
Source: IFWP
Date Processed by STIC: 8/14/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/526,125

CRF Edit Date: 8/14/06
Edited by: JR

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

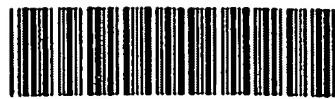
— Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

J Other:

Deleted multiple <110>'s



IFWP

RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/526,125

TIME: 15:41:59

Input Set : N:\AMC\Sequence listing.txt
 Output Set: N:\CRF4\08142006\J526125.raw

3 <110> APPLICANT: CHIRON SRL
 4 PIZZA Mariagrazia
 5 MASIGNANI Vega
 7 <120> TITLE OF INVENTION: MUTANT FORMS OF MENINGOCOCCAL ADP-RIBOSYLATING TOXIN
 9 <130> FILE REFERENCE: P031668WO / PP19813.002
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/526,125
 C--> 11 <141> CURRENT FILING DATE: 2005-02-28
 11 <150> PRIOR APPLICATION NUMBER: GB-0220205.9
 12 <151> PRIOR FILING DATE: 2002-08-30
 14 <160> NUMBER OF SEQ ID NOS: 13
 16 <170> SOFTWARE: SeqWin99, version 1.02
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 145
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Neisseria meningitidis
 23 <400> SEQUENCE: 1
 24 Met Gly Asn Phe Leu Tyr Arg Gly Ile Ser Cys Gln Gln Asp Glu Gln
 25 1 5 10 15
 27 Asn Asn Gly Gln Leu Lys Pro Lys Gly Asn Lys Ala Glu Val Ala Ile
 28 20 25 30
 30 Arg Tyr Asp Gly Lys Phe Lys Tyr Asp Gly Lys Ala Thr His Gly Pro
 31 35 40 45
 33 Ser Val Lys Asn Ala Val Tyr Ala His Gln Ile Glu Thr Gly Leu Tyr
 34 50 55 60
 36 Asp Gly Cys Tyr Ile Ser Thr Thr Asp Lys Glu Ile Ala Lys Lys
 37 65 70 75 80
 39 Phe Ala Thr Ser Ser Gly Ile Glu Asn Gly Tyr Ile Tyr Val Leu Asn
 40 85 90 95
 42 Arg Asp Leu Phe Gly Gln Tyr Ser Ile Phe Glu Tyr Glu Val Glu His
 43 100 105 110
 45 Pro Glu Asn Pro Asn Glu Lys Glu Val Thr Ile Arg Ala Glu Asp Cys
 46 115 120 125
 48 Gly Cys Ile Pro Glu Glu Val Ile Ile Ala Lys Glu Leu Ile Glu Ile
 49 130 135 140
 51 Asn
 52 145
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 145
 57 <212> TYPE: PRT
 58 <213> ORGANISM: Neisseria meningitidis
 60 <400> SEQUENCE: 2
 61 Met Gly Asn Phe Leu Tyr Arg Gly Ile Ser Cys Gln Gln Asp Glu Gln
 62 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/526,125

DATE: 08/14/2006
TIME: 15:41:59

Input Set : N:\AMC\Sequence listing.txt
Output Set: N:\CRF4\08142006\J526125.raw

64 Asn Asn Gly Gln Leu Lys Pro Lys Gly Asn Lys Ala Glu Val Ala Ile
65 20 25 30
67 Arg Tyr Asp Gly Lys Phe Lys Tyr Asp Gly Lys Ala Thr His Gly Pro
68 35 40 45
70 Ser Val Lys Asn Ala Val Tyr Ala His Gln Ile Glu Thr Gly Leu Tyr
71 50 55 60
73 Asp Gly Cys Tyr Ile Ser Thr Thr Asp Lys Glu Ile Ala Lys Lys
74 65 70 75 80
76 Phe Ala Thr Ser Ser Gly Ile Glu Asn Gly Tyr Ile Tyr Val Leu Asn
77 85 90 95
79 Arg Asp Leu Phe Gly Gln Tyr Ser Ile Phe Glu Tyr Asp Val Glu His
80 100 105 110
82 Pro Glu Asn Pro Asn Glu Lys Glu Val Thr Ile Arg Ala Glu Asp Cys
83 115 120 125
85 Gly Cys Ile Pro Glu Glu Val Ile Ile Ala Lys Glu Leu Ile Glu Ile
86 130 135 140
88 Asn
89 145

92 <210> SEQ ID NO: 3

93 <211> LENGTH: 145

94 <212> TYPE: PRT

95 <213> ORGANISM: Neisseria meningitidis

97 <400> SEQUENCE: 3

98 Met Gly Asn Phe Leu Tyr Arg Gly Ile Ser Cys Gln Gln Asp Glu Gln
99 1 5 10 15
101 Asn Asn Gly Gln Leu Lys Pro Lys Gly Asn Lys Ala Glu Val Ala Ile
102 20 25 30
104 Arg Tyr Asp Gly Lys Phe Lys Tyr Asp Gly Lys Ala Thr His Gly Pro
105 35 40 45
107 Ser Val Lys Asn Ala Val Tyr Ala His Gln Ile Glu Thr Gly Leu Tyr
108 50 55 60
110 Asp Gly Cys Tyr Ile Ser Thr Thr Asp Lys Glu Ile Ala Lys Lys
111 65 70 75 80
113 Phe Ala Thr Ser Ser Gly Ile Glu Asn Gly Tyr Ile Tyr Val Leu Asn
114 85 90 95
116 Arg Asp Leu Phe Gly Gln Tyr Ser Ile Phe Glu Tyr Glu Val Asp His
117 100 105 110
119 Pro Glu Asn Pro Asn Glu Lys Glu Val Thr Ile Arg Ala Glu Asp Cys
120 115 120 125
122 Gly Cys Ile Pro Glu Glu Val Ile Ile Ala Lys Glu Leu Ile Glu Ile
123 130 135 140
125 Asn
126 145

129 <210> SEQ ID NO: 4

130 <211> LENGTH: 145

131 <212> TYPE: PRT

132 <213> ORGANISM: Neisseria meningitidis

134 <400> SEQUENCE: 4

135 Met Gly Asn Phe Leu Tyr Arg Gly Ile Ser Cys Gln Gln Asp Glu Gln

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,125

DATE: 08/14/2006

TIME: 15:41:59

Input Set : N:\AMC\Sequence listing.txt
 Output Set: N:\CRF4\08142006\J526125.raw

202 <210> SEQ ID NO: 8
 203 <211> LENGTH: 14
 204 <212> TYPE: PRT
 205 <213> ORGANISM: Neisseria meningitidis, serogroup A
 207 <400> SEQUENCE: 8
 208 Phe Leu Ala Asn Leu Leu Lys Asp Phe Arg Arg Ile Thr Leu
 209 1 5 10
 211 <210> SEQ ID NO: 9
 212 <211> LENGTH: 19
 213 <212> TYPE: PRT
 214 <213> ORGANISM: Neisseria meningitidis, serogroup A
 216 <400> SEQUENCE: 9
 217 Met Ser Leu Val Glu Leu Lys Val Pro Asp Ile Gly Gly His Glu Asn
 218 1 5 10 15
 220 Val Asp Ile
 224 <210> SEQ ID NO: 10
 225 <211> LENGTH: 180
 226 <212> TYPE: DNA
 227 <213> ORGANISM: Neisseria gonorrhoeae
 229 <400> SEQUENCE: 10
 230 tattcctggc gaacctgttgc aaagacttcc gcccattac cttataaaat aaaacatccc 60
 231 tctcaaggcag tctgataatgc tttggattgc tttagattga tgagtatgg tgtaaaattc 120
 232 aaactttaaaa ttaataactt atggaaattt tcttatttat atagaggcat tagttgccaa 180
 234 <210> SEQ ID NO: 11
 235 <211> LENGTH: 14
 236 <212> TYPE: PRT
 237 <213> ORGANISM: Neisseria gonorrhoeae
 239 <400> SEQUENCE: 11
 240 Phe Leu Ala Asn Leu Leu Lys Asp Phe Arg Arg Ile Thr Leu
 241 1 5 10
 243 <210> SEQ ID NO: 12
 244 <211> LENGTH: 7
 245 <212> TYPE: PRT
 246 <213> ORGANISM: Neisseria gonorrhoeae
 248 <400> SEQUENCE: 12
 249 Met Gly Asn Phe Leu Phe Ile
 250 1 5
 252 <210> SEQ ID NO: 13
 253 <211> LENGTH: 147
 254 <212> TYPE: PRT
 255 <213> ORGANISM: Vibrio cholerae
 257 <400> SEQUENCE: 13
 258 Lys Leu Tyr Arg Ala Asp Ser Arg Pro Pro Asp Glu Ile Lys Gln Ser
 259 1 5 10 15
 261 Gly Gly Leu Met Pro Arg Gly Gln Ser Glu Tyr Phe Asp Arg Gly Thr
 262 20 25 30
 264 Gln Met Asn Ile Asn Leu Tyr Asp His Ala Arg Gly Thr Gln Thr Gly
 265 35 40 45
 267 Phe Val Arg His Asp Asp Gly Tyr Val Ser Thr Ser Ile Ser Leu Arg

RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/526,125

TIME: 15:41:59

Input Set : N:\AMC\Sequence listing.txt
Output Set: N:\CRF4\08142006\J526125.raw

268	50	55	60	
270	Ser Ala His Leu Val Gly Gln Thr Ile Leu Ser Gly His Ser Thr Tyr			
271	65	70	75	80
273	Tyr Ile Tyr Val Ile Ala Thr Ala Pro Asn Met Phe Asn Val Asn Asp			
274		85	90	95
276	Val Leu Gly Ala Tyr Ser Pro His Pro Asp Glu Gln Glu Val Ser Ala			
277		100	105	110
279	Leu Gly Gly Ile Pro Tyr Ser Gln Ile Tyr Gly Trp Tyr Arg Val His			
280		115	120	125
282	Phe Gly Val Leu Asp Glu Gln Leu His Arg Asn Arg Gly Tyr Arg Asp			
283		130	135	140
285	Arg Tyr Tyr			
286	145			

VERIFICATION SUMMARY DATE: 08/14/2006
PATENT APPLICATION: US/10/526,125 **TIME:** 15:42:00

Input Set : N:\AMC\Sequence listing.txt
Output Set: N:\CRF4\08142006\J526125.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No.
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWP

*delete
duplicate
<107's*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/526,125

DATE: 08/09/2006
TIME: 09:34:27

Input Set : F:\Sequence listing.txt
Output Set: N:\CRF4\08092006\J526125.raw

B <110> APPLICANT: CHIRON SRL
 W--> 4 <110> APPLICANT: PIZZA Mariagrazia
 W--> 5 <110> APPLICANT: MASIGNANI Vega
 7 <120> TITLE OF INVENTION: MUTANT FORMS OF MENINGOCOCCAL ADP-RIBOSYLATING TOXIN
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 11 <150> PRIOR APPLICATION NUMBER: GB-0220205.9
 12 <151> PRIOR FILING DATE: 2002-08-30
 14 <160> NUMBER OF SEQ ID NOS: 13
 16 <170> SOFTWARE: SeqWin99, version 1.02
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 145
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Neisseria meningitidis
 23 <400> SEQUENCE: 1
 24 Met Gly Asn Phe Leu Tyr Arg Gly Ile Ser Cys Gln Gln Asp Glu Gln
 25 1 5 10 15
 27 Asn Asn Gly Gln Leu Lys Pro Lys Gly Asn Lys Ala Glu Val Ala Ile
 28 20 25 30
 30 Arg Tyr Asp Gly Lys Phe Lys Tyr Asp Gly Lys Ala Thr His Gly Pro
 31 35 40 45
 33 Ser Val Lys Asn Ala Val Tyr Ala His Gln Ile Glu Thr Gly Leu Tyr
 34 50 55 60
 36 Asp Gly Cys Tyr Ile Ser Thr Thr Asp Lys Glu Ile Ala Lys Lys
 37 65 70 75 80
 39 Phe Ala Thr Ser Ser Gly Ile Glu Asn Gly Tyr Ile Tyr Val Leu Asn
 40 85 90 95
 42 Arg Asp Leu Phe Gly Gln Tyr Ser Ile Phe Glu Tyr Glu Val Glu His
 43 100 105 110
 45 Pro Glu Asn Pro Asn Glu Lys Glu Val Thr Ile Arg Ala Glu Asp Cys
 46 115 120 125
 48 Gly Cys Ile Pro Glu Glu Val Ile Ile Ala Lys Glu Leu Ile Glu Ile
 49 130 135 140
 51 Asn
 52 145
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 145
 57 <212> TYPE: PRT
 58 <213> ORGANISM: Neisseria meningitidis
 60 <400> SEQUENCE: 2
 61 Met Gly Asn Phe Leu Tyr Arg Gly Ile Ser Cys Gln Gln Asp Glu Gln
 62 1 5 10 15

*Does Not Comply
Corrected Diskette Needed*